

METHOD OF PRODUCING POROUS INORGANIC OXIDE

Publication number: JP2003286011

Publication date: 2003-10-07

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Classification:

- international: **C01B13/18; B01J21/06; B01J32/00; B01J35/10;
C01G23/053; C01G23/08; C01B13/18; B01J21/00;
B01J32/00; B01J35/00; C01G23/00; (IPC1-7):
C01B13/18; B01J21/06; B01J32/00; B01J35/10;
C01G23/053; C01G23/08**

- European:

Application number: JP20020094075 20020329

Priority number(s): JP20020094075 20020329

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Abstract of **JP2003286011**

PROBLEM TO BE SOLVED: To provide a method of producing a porous inorganic oxide by which the fine pore diameter is precisely controlled to a optional size and a porous inorganic oxide having the controlled fine pore diameter is rapidly and easily produced.

SOLUTION: The porous inorganic oxide is produced by: synthesizing the hydrosol or hydrogel of a metallic hydrous oxide by swinging pH alternately from a precipitation pH region to a dissolution pH region several times; drying the resultant hydrosol or hydrogel of the metallic hydrous oxide; and sintering the hydrosol or hydrogel at a prescribed temperature. The porous inorganic oxide having fine pores controlled to have a desired fine pore diameter is obtained by: controlling the pore diameter to an approximate fine pore diameter smaller than and close to the desired fine pore diameter required for the porous inorganic oxide; and carrying out a high temperature firing operation of firing at a firing temperature set to be higher than a firing temperature required for the porous inorganic oxide corresponding to the difference between the desired fine pore diameter and the approximate fine pore diameter.

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